

BIS TRIS, 100g**PG-5170-100G**

Bis-Tris [Bis(2-hydroxyethyl)imino-tris(hydroxymethyl)methane] is a zwitterionic biological buffer widely used in molecular biology, biochemistry, and protein research applications. It provides excellent buffering capacity in the physiological pH range and is commonly employed in electrophoresis systems, protein purification, cell culture media, and enzyme studies due to its low metal-binding properties and minimal biological interference.

Purpose High-purity biological buffer suitable for protein electrophoresis, chromatography, enzyme assays, and molecular biology applications.

Chemical Name Bis(2-hydroxyethyl)imino-tris(hydroxymethyl)methane

Molecular Formula $C_8H_{19}NO_5$

Molecular Weight 209.24 g/mol

Appearance White crystalline powder

Purity $\geq 99\%$

pKa (25°C) 6.46

Useful Buffering Range pH 5.8 – 7.2

Solubility Freely soluble in water

CAS Number 6976-37-0

Storage Store at room temperature (15–30°C) in a tightly closed container.

Condition Protect from moisture.

Shelf Life Refer to label.

Safety

Highly flammable liquid and vapor. Causes serious eye irritation and may cause dizziness or drowsiness if inhaled. Keep away from heat, sparks, open flames, and hot surfaces. Use in a well-ventilated area and wear appropriate PPE including gloves, lab coat, and safety goggles. Store in a cool, dry, well-ventilated place.